

CLAIMS:

1. A method of using a diesel reforming strategy,
 comprising:
 supplying diesel fuel to a fractional distillation device;
 fractionally distilling said diesel fuel to produce a light fuel
 5 stream and a heavy fuel stream; and
 reforming said light fuel stream in a reformer to produce a
 reformate.
2. The method of Claim 1, further comprising burning said
 heavy fuel stream in a burner to generate thermal energy.
3. The method of Claim 2, wherein said reformer is a steam
 reformer.
4. A diesel fuel reforming system, comprising:
 a fractional distillation device in fluid communication with a
 supply of diesel fuel; and
 a reformer in fluid communication with said fractional
 5 distillation device.
5. The diesel fuel reforming system of Claim 4, further
 comprising a burner in fluid communication with said fractional distillation
 device.
6. The diesel fuel reforming system of Claim 4, wherein
 said reformer is a steam reformer.

7. A method of making an apparatus for a diesel reforming strategy, comprising:

disposing a reformer in fluid communication with a fuel cell stack;

5 disposing said reformer in fluid communication with a fractional distillation device; and

disposing said fractional distillation device in fluid communication with a supply of fuel.

8. The method of Claim 7, further comprising disposing a burner in fluid communication with said fractional distillation device.

9. A method of using a fuel cell system, comprising:
supplying diesel fuel to a fractional distillation device;
fractionally distilling said diesel fuel to produce a light fuel stream and a heavy fuel stream;

5 reforming said light fuel stream in a reformer to produce a reformat; and

utilizing said reformat in a fuel cell stack to produce electricity.

10. The method of Claim 9, further comprising burning said heavy fuel stream in a burner to generate thermal energy.

11. The method of Claim 9, wherein said reformer is a steam reformer.

12. A fuel cell system for diesel fuel reforming, comprising:
a means for fractionally distilling a supply of diesel fuel to produce a light fuel stream and a heavy fuel stream;
a means for reforming said light fuel stream to produce a reformat, said means for reforming disposed in fluid communication with said means for fractionally distilling; and
a means for producing electricity from said reformat, said means for producing electricity disposed in fluid communication with said means for reforming.
- 5 13. The system of Claim 12, further comprising a means for burning said heavy fuel stream disposed in fluid communication with said fractional distillation device.
14. The system of Claim 13, wherein said means for burning produces thermal energy.
15. The system of Claim 12, wherein said means for reforming is a steam reformer.
16. The system of Claim 12, wherein said means for producing electricity is a fuel cell.
17. The system of Claim 16, wherein said means for producing electricity is a solid oxide fuel cell.